

Receiving Report

Date:

14/7/30

Batch No:

M/29947

Supplier:

BE

Dart P/O:

25200

Packing Slip: Yes ☒ No ☒
 Invoice: Yes ☒ No ☒
 Receipt: Cash ☒ Cr ☒
 New Supplier Yes ☒ No ☒

Release Note Attached: Yes ☒ No ☒ N/A ☒
 Waybill Attached: Yes ☒ No ☒
 Shipment Complete: Yes ☒ No ☒ N/A ☒
 QC18 Inspection ☒ N/A ☒
 Work Order ☒ N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12

[Signature]

Production/Admin:

Date

Received/Costing

Initial

Location



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO25200**

Purchase Order Date 7/29/2014

PO Print Date 7/29/2014

Page Number 1 of 2

Order From :

VU-BEA001

B/E AEROSPACE INC
88289 EXPEDITE WAY
CHICAGO, IL 33172
USA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED

Contact Name

Vendor Phone 305-925-2600

Ship To Contact

Ship To Phone

Ship Via: Fedex P1

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	NAS1149CN416R	Washer	7/30/2014 Yes 7/30/2014		100.00 Each	\$0.15	\$15.00
Line Total:							\$15.00
2	MS21919WCF8	Clamp	7/30/2014 Yes 7/30/2014	FN	20.00 Each	\$2.00	\$40.00
Line Total:							\$40.00

Note:

7/29/2014



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO25200

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	CURE DATE	EXP DATE
2	20	EA	MS21919WCP8		UMP87051A	UMPCO	18076	01/01/12	03/31/27



Jason Lewis
Vice President of Quality

07/29/14

Inv # 07/29/14

UMPCO, INC.

MANUFACTURE OF CLAMPS, CLIPS & BRACKETS
7100 LAMPSON AVENUE P.O. BOX 5158 GARDEN GROVE, CA 92846-5158 714-897-3531
WWW.UMPCO.COM

Customer NO.
BEA009

Sales Order NO.
397481



SOLD
TO

B/E AEROSPACE

CONSUMABLES MANAGEMENT
P.O. BOX 025263
MIAMI, FL 33102-5263

SHIPPING DEST CODE MIAM

ASN

SHIP
TO

B/E AEROSPACE CONSUMABLES
MANAGEMENT
9835 NW 14th ST
MIAMI, FL 33172

CLAIMS FOR ERRORS AND ALL DEDUCTIONS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF INVOICE 1 1/2% SVC. PER MO. CHARGED ON ALL PAST DUE AMOUNTS

ORDER DATE

SHIP VIA

F.O.B.

TERMS

SHIPPING DATE

04/11/14

FEDEX GROUND

RECIPIENT

1/2 % 10 NET 30

06/09/14

PURCHASE ORDER NUMBER

ORDER DATE

CONTACT

SALESPERSON

BILL OF LADING NUMBER

OXMY44

04/11/14

08

77024383913

ITEM ON ORDER QUAN.SHIPPED QUAN. BO

DESCRIPTION

1 1250 1250 MS21919WCF8 06/10/14 N

REV E

Lot#: UMP87051A 1Q12 Qty: 1250 IR Numbers: 177856,179045,178182

2 1250 0 MS21919WCF8 02/10/15 N

REV E

RT

85% SHELF LIFE REQUIRED MT

NOTE: UNDER 150 # SHIP FED X GROUND,

IF OVER 150 # SHIP FED EX NATIONAL LTL

ACCT: 018757

CERTIFICATE OF CONFORMANCE

Page 1

Printed: 06/04/14 12:22:10

TOTAL CARTONS 1
FEDEX GROUND 033101490

TOTAL WEIGHT 20

PURCHASE ORDER NUMBER

CUSTOMER NO.

SALES ORDER NO.



A WRITTEN RETURN MATERIAL AUTHORIZATION FORM (RMA) MUST BE OBTAINED FROM UMPCO BEFORE RETURNING ANY MATERIALS FOR CREDIT OR REPLACEMENT.
"WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTION 6, 7 & 12 OF THE FAIR LABOR STANDARDS ACT, AS AMENDED, AND OF REGULATIONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UNDER SECTION 14 THEREOF."
UMPCO certifies that parts shipped on above documents conforms in all respects to applicable specifications and/or standards. Complete physical and chemical test reports as required are on file and available for review. Processing product testing and inspection control of raw material shall be in conformance with all applicable specifications, drawings and/or standards. Products are produced in a mercury free environment. "When applicable, materials are compliant to DFARS 252.225-7009."

UMPCO, INC. 7100 Lampson Ave.
Garden Grove, CA 92841

Authorized Signature Final Inspector

DELIVERY RECEIPT NO. 397481



B/E Aerospace, Inc.

Page: 1 of 1

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www.beconsumables.com

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FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO25200

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
1	100	EA	NAS1149CN416R		X5242	ANILLO INDUSTRIES	10630		


Jason Lewis
Vice President of Quality

07/29/14

ANILLO Industries, Inc.

2090 NORTH GLASSELL STREET, ORANGE, CA 92865-3391 USA
PLEASE REMIT TO
P.O. BOX 5586 ORANGE, CA 92863-5586 USA
(714)637-7000 (562)924-6632 FAX(714) 637-3022



553312

Packing List & Certification

WE ACCEPT
VISA/MASTER/DISCOVER/AMEX

SOLD TO B/E AEROSPACE, INC. ATTN: ACCOUNTS PAYABLE DEPT. P.O. BOX 025263 MIAMI, FL 33102-5263	1165	SHIP TO B/E AEROSPACE, INC. CONSUMABLES MANAGEMENT 9835 NW 14TH ST MIAMI, FL 33172	E
--	-------------	---	----------

DATE ORDER REC'D 12/06/2011	ORDER NUMBER 1A1281	INVOICE DATE	SHIPPED VIA FEDXG 033101490	TERMS 1% 10 DAYS, NET 30
ITEM	ORDERED	SHIPPED	DESCRIPTION	NET WEIGHT

2,396,288 **262400NAS1149CN416R**
REV 5 / LOT#X5242/X5243 / MIN/MAX / QCR:1,4,6,8,15,16,30,
ECCN: 9A991 Schedule B#: 7318.22.0000 COO: USNLR

ANILLO IND. (CageCode: 10630)
Part #: NAS1149CN416R
Quantity: 208360
P.O.#: 1A1281
LOT#: X5242
ITEM#: 1 REV. 5
Packed By: YR

ANILLO IND. (CageCode: 10630)
Part #: NAS1149CN416R
Quantity: 54040
P.O.#: 1A1281
LOT#: X5243
ITEM#: 1 REV. 5
Packed By: YR

We certify that: 1. item number 1 above is manufactured in accordance with the material and processing specifications of this order.
2. We certify that the material on this order conforms in all respects to the current applicable government and/or manufacturer's specification. Test reports are on file and are available for examination on all Anillo manufactured parts. All claims for errors or shortages must be made within 10 days after receipt of goods.
No good to be returned without written authorization. All claims for defective material must be filed within 30 days of shipment to receive consideration. We do not assume financial responsibility or liability from the use of products sold, other than the replacement value of the products sold, if claimed within the specified time limit above.

<< R.M.A.# REQUIRED FOR RETURNS >>

<< TO THE BEST OF OUR KNOWLEDGE, PARTS ARE MERCURY FREE >>

Certification

**Material Melted in
qualifying country per
D.F.A.R 252.225-7014 ALT. 1**

B/E Aerospace, Inc.
Consumable Management
Self Replace

Signature & Stamp: 

Date: 10-14-13

BY Ben Omidwar
Ben Omidwar, Quality Assurance Manager

FI 4.03.05



AK Steel Corporation
Metallurgical Test Report
Coshocton Works
17400 State Route 16
Coshocton, OH 43812 U.S.A.

Page 1

Load No. 7521370
Srn No. 7521370

CUSTOMER
ARROW THOMPSON METALS INC
6880 TROOST AVENUE
NO HOLLYWOOD, CA 91605

SHIP TO
ARROW THOMPSON METALS INC
6880 TROOST AVENUE
NO HOLLYWOOD, CA 91605

MILL ORDER NO. 230987-0422
PROCESSOR ORDER NO. 009402-003
BUYERS ORDER NO. 009402-003

PART NO.
3010CQH282B

ENGLISH UNITS -PRODUCT- METRIC UNITS
.0161 NOM 36.0000 X COIL



SKID ID	PIECE	HEAT	PARENT LIFT ID	NET WEIGHT
SKD995181	1	7520257	718149-068	6,480 LBS. 2,939 KG.
SKD995182	1	7520257	718149-068	6,875 LBS. 3,118 KG.
TOTAL SKIDS	TOTAL PIECES			TOTAL NET WEIGHT
2	2			13,355 LBS. 6,058 KG.

S.-Ladle Analysis of Heat

P-Product Analysis of Parent Coil

CHEMICAL ANALYSIS

ID	C	MN	P	S	SI	CR	NI	MO	N	CU							
1. 7520257	.10	1.08	.025	.002	.47	17.52	7.07	.13	.03	.24							

SHIPPING DATE: 04/02/2012

REMARKS

NO WELD REPAIRS (WITH OR WITHOUT FILLER METAL) HAVE BEEN MADE.
THIS MATERIAL WAS MELTED AND MANUFACTURED IN THE U.S.A. (DFARS COMPLIANT).

PRODUCT DESCRIPTION

CR SHT TYPE 301 STAINLESS NI 7.0% MIN #2B FINISH 1/4 HARD SLIT EDGE * AMS 5517L * ASTM A 666-10

PARENT LIFT ID	POS	DIR (L, T, D)	COND	% ELONG	ELONG METHOD	ELONG GAUGE LENGTH	TENSILE STRENGTH (KSI)	Y.S. .2% OFFSET (KSI)	ROCKWELL HARDNESS Tail	ROCKWELL HARDNESS Front
718149-068	T	T	A.S.T.M	48.4	MEASURED	2 Inch	132.5	83.9	C 24	C 23
PARENT LIFT ID	POS	DIR (L, T, D)	COND	BEND 180 IT LONG	BEND 180 IT					
718149-068	T	T	A.S.T.M	PASS	PASS					
PARENT LIFT ID	POS	DIR (L, T, D)	COND	% ELONG	ELONG METHOD	ELONG GAUGE LENGTH	TENSILE STRENGTH (KSI)	Y.S. .2% OFFSET (KSI)	ROCKWELL HARDNESS Tail	ROCKWELL HARDNESS Front
718149-068	F	T	A.S.T.M	54.1	MEASURED	2 Inch	135.2	78.3	C 24	C 23

*** CONTINUED ON NEXT PAGE ***

VERIFIED COPY OF ORIGINAL

We hereby certify that this document is a correct copy of reports now on file at Anillo Industries, Inc.

Date:

Part Number:

Lot Number:

Signature:

Title:

10-14-13

NA51149CNY168

XS242

Quality Records Clerk

Certification

ANILLO INDUSTRIES, INC.
2090 North Glassell st.
Orange, CA. 92865-3391
(714) 637-9110

*This is to certify that the below listed parts were processed per the applicable specification listed below.
Test reports and procedures governing this process are on file and subject to examination.*

PASSIVATION OF STAINLESS STEEL AMS 2700

Type	Class	Thickness	Revision
VI	1		E

Job Number: **X5242**

P/N REV.: **5**

Quantity: **516,300**

Visual: **Y**

Part Number: **NAS1149 C N416 R**

Adhesion: **N**

Description: **METHOD 1**

Date: **08/08/13**

Authorized by: **MARIBEL CUEVAS**

Stamp:



FORM # 4.09.117 REV A 05/19/09

Receiving Report

Date: 14/8/6
 Supplier: BK AEW

Batch No: 4130018
 Dart P/O: 26278

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒
 New Supplier Yes ☐ No ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☐ No ☒ N/A ☐
 Shipment Complete: Yes ☐ No ☒ N/A ☐
 QC18 Inspection ☐ N/A ☒
 Work Order ☐

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number
AN3C41A	41A	100	0	100			

Initials of Receiver

QC12

Production/Admin:

Date

Received/Costing

Initial

Location

H:\FORMS\Purchasing\approved purch\RECREPORT Rev F

8/6/2014

2 MS20600-AD4W3

Cherry Rivets

8/6/2014

600.00

Line Total:

\$50.00

Yes

Each

\$0.12

\$72.00

8/6/2014

Line Total:

\$72.00

3 AN3C41A

Bolt

8/11/2014 FN

100.00

\$16.97

\$1,697.00

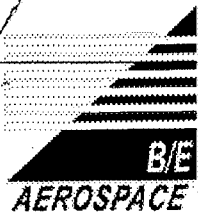
Yes

Each

8/11/2014

Note:

8/1/2014



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

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www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

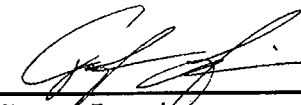
Material Certification

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FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO25279

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
2	600	EA	MS20600AD4W3		87477831	CHERRY AEROSPACE SAN	11815		


Jason Lewis
Vice President of Quality

08/05/14



CHERRY®
AEROSPACE
SPS Fastener Division, a PCC Company

Cherry Aerospace
1224 East Warner Avenue
Post Office Box 2157
Santa Ana, CA 92707-0157
USA



PACKING LIST

Order No: SO321781
Order Date: 04/30/08
Print Date: 07/14/11

Page: 1



Sold-To: 10015341

Ship-To: 19000244

SOLD TO
B/E AEROSPACE
PO BOX 025263
MIAMI, FL 33102-5263
USA

SHIP TO
B/E AEROSPACE INC C.M.
10000 N.W. 15TH TERRACE
MIAMI, FL 33172
USA

Salesperson (s):110

Purchase Order: 0FA567

Credit Terms: Net 30
Net 30

Ship Via: FED EX NATIONAL CL
FOB: Origin - Collect



Remarks:

IF UNDER 150# SHIP FEDEX GROUND COLLECT ACCOUNT# 0331-0149-0
IF OVER 150# SHIP FED EX NATIONAL ACCOUNT# 018757 - DO NOT INSURE
DO NOT PREPAY AND ADD TO ANY OF THE ABOVE METHODS
DO NOT SHIP EARLIER THAN TWO (2) WEEKS PRIOR TO DUE DATE, UNLESS SPECIFIED.

BRITISH AEROSPACE APPROVAL# BAe/AG/30158/MAA to BAe/AG/QC/SC1 PART 3
AIRBUS APPROVAL# 30114

GOODS OF UNITED STATES ORIGIN

FASTENERS ECCN: 9A991d SCHEDULE B# 8803300010
TOOLS ECCN: EAR99 SCHEDULE B# 8467290095

Ln	Item Number	Site T LocationLot/Serial	Qty Open Qty to Ship UM	Promised Shipped
8	CR9163-4-03 Customer Item: MS20600AD4W3 * IF APPLICABLE, PART MEETS DFARS CLAUSE 252.225-7014 ALT I * PREFERENCE FOR DOMESTIC SPECIALTY METALS 	1600 EZ LINE 87477831	EA 16878.0	04/15/11 () 

TEST REPORTS ENCLOSED
DO NOT DESTROY

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited

Packing List



CHERRY®
AEROSPACE
SPS Fastener Division, a PCC Company

Cherry Aerospace
1224 East Warner Avenue
Post Office Box 2157
Santa Ana, CA 92707-0157
USA



PACKING LIST

Order No: SO321781
Order Date: 04/30/08
Print Date: 07/14/11

Page: 1



Sold-To: 10015341

Ship-To: 19000244

S O L D T O	B/E AEROSPACE
	PO BOX 025263
	MIAMI, FL 33102-5263
	USA

S H I P T O	B/E AEROSPACE INC C.M.
	10000 N.W. 15TH TERRACE
	MIAMI, FL 33172
	USA

Salesperson (s):110

Purchase Order: 0FA567

Credit Terms: Net 30
Net 30

Ship Via: FED EX NATIONAL CL
FOB: Origin - Collect

Remarks:

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IF OVER 150# SHIP FED EX NATIONAL ACCOUNT# 018757 - DO NOT INSURE
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AIRBUS APPROVAL# 30114

GOODS OF UNITED STATES ORIGIN

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TOOLS ECCN: EAR99 SCHEDULE B# 8467290095

Ln	Item Number	Site T Location	Lot/Serial	Qty Open Qty to Ship	UM	Promised Shipped
8	CR9163-4-03 Customer Item: MS20600AD4W3 * IF APPLICABLE, PART MEETS DFARS CLAUSE 252.225-7014 ALT I * PREFERENCE FOR DOMESTIC SPECIALTY METALS EZ LINE 87477831	1600		16878.0	EA	04/15/11

TEST REPORTS ENCLOSED
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CERTIFICATION

The material and/or parts we are furnishing in this shipment (as shown above) on the subject Purchase Order conform to the order and applicable specifications, Evidence that the material and/or parts meet the specifications and results of all tests for each lot affected will be in our files and will be available for your inspection at any reasonable time.

ATTENTION: PURCHASING DEPARTMENT

Quality Assurance Representative

Signed

SIM NGUYEN



CHERRY[®] AEROSPACE
SPS Fastener Division, a PCC Company



Accredited
Nadcap[™]

Chemical Processing
Heat Treating
ISO/IEC 17025
Material Testing Lab

1224 East Warner Avenue
Santa Ana, CA 92707-0157

Final Inspection & Test Report Cherry[®] Rivet

An ISO9001 and AS9100 registered company. OASIS #6111041606

Part Numbers	Rev	Proc. Spec.	Rev	Lot I.D. No.: 87477831 Lot Size: 20,000 MFG. Date: July 14, 2011
CR9163-4-03	H	MIL-R-7885	D2	

ASSEMBLY DATA

TYPE	ID #	CERT #	MATERIAL	FINISH	LUBE
Rivet	87477831	A66764	2117-T4 ALUM. ALLOY	MIL-C-5541	Par-90
Stem	87505297	A66932	2017-T4 ALUM. ALLOY	MIL-C-5541	Par-90

W.O. #: 03290162

Final Lube: None

QUALITY CONFORMANCE/ACCEPTANCE RESULTS

MIN REQ'D SAMPLE SIZE SPECS	INSTALLED SHEAR		SPINDLE RETENSION	
	370		15	
	9		9	
RESULTS	516	500	38	41
	527		41	
	517		40	
	493		38	
	496		39	
	504		37	
	506		43	
LOAD VALUES IN POUNDS	497		39	

PCS.	ITEM	STATUS	PCS.	ITEM	STATUS
20	EXAMINATION	PASS	13	INSTALLATION (Min and Max Grips)	PASS

Comments:

Blind Fastener

Tr. Rev.: -
Rev. Date: 7/14/2011

Inspector
V. Iriarte



Insp. Control #:

The parts contained in this shipment have been manufactured and inspected in accordance with TSO-C148. The conditions and tests required for TSO approval of this article are minimum performance standards. Aircraft fasteners approved under this TSO are not necessarily interchangeable with other aircraft fasteners approved under this TSO. Fasteners of similar dimensional properties may have widely varying performance and metallurgical properties. Substitution of parts may only be done if acceptable to or approved by the Administrator.

This test report shall not be reproduced except in full, without the written approval of the laboratory.
The recording of false, fictitious, or fraudulent statement or entries on the certificate may be punished as a felony under Federal law.

KAISER ALUMINUM

SANTA ANA, CA. 92707-0157

CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		OTHERS	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
	2117		0.80		0.70	2.20	3.00		0.20	0.20	0.50		0.10	0.05	0.15
		NICKEL		ZINC		TITANIUM		LEAD		BISMUTH					
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
					0.25										
ALUMINUM REMAINDER															

**KAISER
ALUMINUM**
FABRICATED PRODUCTS

Kaiser Aluminum & Chemical
600 Kaiser Drive
Heath, OH 43056-1088
740-522-1151

Best in Class

CERTIFIED TEST REPORT
<http://Certs.KaiserAluminum.com>

Specifications

QQA-430

Miscellaneous Notes

Made in USA

Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. Actual (Act) chemical composition is from representative samples taken during the ingot casting process. Independent chemical analysis will vary from these values because of natural variation in the process and testing error. This test report shall not be reproduced, except in full, without the written approval of Kaiser Aluminum. The recording of false, fictitious, or fraudulent statements or entries on the certificate may be punished as a felony under federal law. Chemical analysis performed in accordance with ASTM E 1251-07. The Newark facility is AS9100B:2004 approved. The Newark Laboratory is NADCAP approved for chemical testing (OES).

MAR 27 2011



Kaiser Aluminum Fabricated
K845005



A66764

CERTIFICATION

Kaiser Aluminum & Chemical Corp Inc. ("Kaiser") hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales order acknowledgement form. Any warranty is limited to that shown on Kaiser's standard general terms and conditions.

John R. Despina, Technical Manager

John R. Despina

Plant Serial: 8267

Kaiser Order Number: 214518953

Line Item: 1

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KAISER ALUMINUM

SANTA ANA, CA. 92707-0157

CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		OTHERS	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
	2017	0.20	0.80		0.70	3.50	4.50	0.40	1.00	0.40	0.80		0.10	0.05	0.15
		NICKEL		ZINC		TITANIUM		LEAD		BISMUTH					
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
				0.25		0.15									
ALUMINUM REMAINDER															

KAISER

ALUMINUM

FABRICATED PRODUCTS

Kaiser Aluminum & Chemical
600 Kaiser Drive
Heath, OH 43056-1088
740-522-1151

Best in Class

CERTIFIED TEST REPORT
<http://Certs.KaiserAluminum.com>

Miscellaneous Notes

Made in USA

Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. Actual (Act) chemical composition is from representative samples taken during the ingot casting process. Independent chemical analysis will vary from these values because of natural variation in the process and testing error. This test report shall not be reproduced, except in full, without the written approval of Kaiser Aluminum. The recording of false, fictitious, or fraudulent statements or entries on the certificate may be punished as a felony under federal law. Chemical analysis performed in accordance with ASTM E 1251-07. The Newark facility is AS9100B:2004 approved. The Newark Laboratory is NADCAP approved for chemical testing (OES).



APR 22 2011



CERTIFICATION

Kaiser Aluminum & Chemical Corp Inc. ("Kaiser") hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales order acknowledgement form. Any warranty is limited to that shown on Kaiser's standard general terms and conditions.

John R. Despina, Technical Manager

John R. Despina

Plant Serial: 6599

Kaiser Order Number: 214516679

Page 2 of 2

Line Item: 1

KAISER ALUMINUM FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT
<http://Certs.KaiserAluminum.com>

Kaiser Aluminum & Chemical
600 Kaiser Drive
Heath, OH 43056-1088
740-522-1151

CUSTOMER PO NUMBER: 13049		CUSTOMER PART NUMBER: 6D37L1		PRODUCT DESCRIPTION: ALY-JUMBO	
KAISER ORDER NUMBER: 214516679	LINE ITEM: 1	SHIP DATE: 03/05/2010	ALLOY: 2017A	TEMPER: O	
WEIGHT SHIPPED: 20515 lbs.	QUANTITY: 91 pcs.	B/L NUMBER: 4678	DIAM/DAF/THKNS: 0.375 in.	WIDTH: 0.000 in.	LENGTH: 0.0 in.
SHIP TO: NICHOLS WIRE INC 1547 HELTON AVE FLORENCE, AL 35830			SOLD TO: NICHOLS WIRE INC 1547 HELTON AVE FLORENCE, AL 35830		

Test Code: 8000

Actual Physical Properties

Lot No.	No. Tests		WGE %	WGU ksi
844717	3	MIN	30.7	26.0
844717		MAX	32.0	26.1

Chemical Composition, WT. % (Aluminum Remainder)

Lot Cast/Drop ChemID		Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Zr
844717										
19-1F2	Act.	0.41	0.22	4.1	0.62	0.63	0.03	0.14	0.02	0.01
148857										
Chemical	Min	0.20		3.5	0.40	0.40				
Limits	Max	0.8	0.7	4.5	1.0	1.0	0.10	0.25	0.05	0.05
	Others	Each	0.05	Max		Total	0.15	Max		

Specifications

QQ-A-430 REV C

APR 22 2011



CERTIFICATION

Kaiser Aluminum & Chemical Corp Inc. ("Kaiser") hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales order acknowledgement form. Any warranty is limited to that shown on Kaiser's standard general terms and conditions.

John R. Despins, Technical Manager

John R. Despins

Plant Serial: 6599

Kaiser Order Number: 214516679

Line Item: 1



A66932

KAISER ALUMINUM FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Certs.KaiserAluminum.com>

Kaiser Aluminum & Chemical
600 Kaiser Drive
Heath, OH 43056-1088
740-522-1151

CUSTOMER PO NUMBER: 13170-ALLFAST		CUSTOMER PART NUMBER: 8G37L1		PRODUCT DESCRIPTION: ALY-JUMBO	
KAISER ORDER NUMBER: 214518953	LINE ITEM: 1	SHIP DATE: 05/07/2010	ALLOY: 2117	TEMPER: O	
WEIGHT SHIPPED: 37,109 Lbs	QUANTITY: 182 pcs.	B/L NUMBER: 5356	DIAM/DAF/THKNS: 0.375 in.	WIDTH: 0.000 in.	LENGTH: 0.0 in.
SHIP TO: NICHOLS WIRE INC 1547 HELTON AVE FLORENCE, AL 35630			SOLD TO: NICHOLS WIRE INC. 1547 HELTON AVE FLORENCE, AL 35630		

Test Code: 8000

Actual Physical Properties

Lot No.	No. Tests	WGU
845005		ksi

Chemical Composition, WT. % (Aluminum Remainder)

Lot	Cast/Drop	ChemID	Si	Fe	Cu	Mn	Mg	Cr	Zn
845005									
65-4F2	Act.		0.38	0.39	2.9	0.14	0.40	0.07	0.18
150135									
Chemical	Min				2.2		0.20		
Limits	Max		0.8	0.7	3.0	0.20	0.50	0.10	0.25
			Others	Each	0.05	Max	Total	0.15	Max

MAR 27 2011



A66764

CERTIFICATION

Kaiser Aluminum & Chemical Corp Inc. ("Kaiser") hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales order acknowledgement form. Any warranty is limited to that shown on Kaiser's standard general terms and conditions.

John R. Despina, Technical Manager

John R. Despina

Plant Serial: 8267

Kaiser Order Number: 214518953

Line Item: 1

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CHERRY[®] AEROSPACE
SAS Performance Division, a PCC Company

1224 East Warner Avenue
Santa Ana, CA 92707-0157



Accredited
Nadcap[™]

Chemical Processing
Heat Treating
ISO/IEC 17025
Material Testing Lab

Final Inspection & Test Report Cherry[®] Rivet

An ISO9001 and AS9100 registered company. OASIS #6111041606

Lot I.D. No.: 87477831

Rev: -

Customer Parts List

<u>Customer Part Number</u>	<u>Rev</u>	<u>Proc. Spec.</u>	<u>Rev</u>
MS20600AD4W3	-	MIL-R-7885	D2



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO25279

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
1	100	EA	AN507-1032R15		76868	CRESCENT MFG.	63020		


Jason Lewis
Vice President of Quality

08/05/14

Inv # 08/05/14

Nº 76868

CERTIFICATE OF COMPLIANCE TEST REPORT

FORM REV A 11/09

MADE IN THE U.S.A.

CUSTOMER NAME B/E AEROSPACE CONSUMABLES

PURCHASE ORDER NO. OHZE84

PART NO. AN507-1032R15 REV 6

INTERNAL ROUTING NO. 28409

QUANTITY TEN THOUSAND

MATERIAL/SPECIFICATION .176 C1018 TRU SPEC W28978

DATE 11/12/2012

PARTS CONTAINED IN THIS SHIPMENT HAVE BEEN MANUFACTURED AND INSPECTED IN ACCORDANCE WITH APPLICABLE DRAWINGS AND SPECIFICATIONS.

CONFORMS TO THE PROCUREMENT SPECIFICATIONS OF:

FF-S-92B

PHYSICAL PROPERTIES

TENSILE STRENGTH HARDNESS SCALE

- | | |
|----------------|----|
| 1) 1453.0 LB T | 1) |
| 2) 1463.0 LB T | 2) |
| 3) 1481.0 LB T | 3) |
| 4) 1471.0 LB T | 4) |
| 5) 1455.0 LB T | 5) |
| 6) | 6) |
| 7) | 7) |
| 8) | 8) |

OTHER MECHANICAL TEST DATA

☐ MEET MAGNETIC PERMEABILITY
REQUIREMENTS OF ASTM A342

PARTS ARE FREE FROM MERCURY AND ASBESTOS CONTAMINATION.
VISUAL AND DIMENSIONAL INSPECTION SATISFACTORY

FINISH

CAD TYPE I CLASS 3 PER AMS QQ-P-416 REV C

OTHER TESTING:

INSPECTED TO: ANSI/ASQ Z1.4 LEVEL 2

ADDITIONALLY, AN ANSI/ASQC Z 1.4 SAMPLE OF THE FINISHED FASTENERS WERE TESTED IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS. SAMPLE PARTS AND THE TEST DATA ARE IN OUR RECORDS RETENTION AREA AS OBJECTIVE EVIDENCE AND WILL BE HELD AS REQUIRED.

Signature

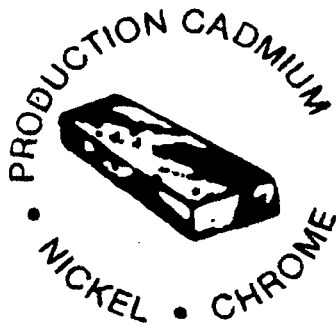
TRACEY NIKSA, QC TECH

Cage Code #63020

CRESCENT MANUFACTURING OPERATING, CO.



700 George Washington Turnpike, Burlington, CT 06013, U.S.A.
Telephone: (860) 673-2591 Fax: (860) 673-5973



New Method Plating Co., Inc.

QUALITY
MANAGEMENT
SYSTEM
ISO 9001:2000
AS9100 REV. B
CERTIFIED

Established 1931



43 Hammond St.
Worcester, MA 01610
Phone 508.754.2671
Fax 508.754.1981
www.newmethodplating.com

CERTIFICATE OF COMPLIANCE

COMPANY CRESCENT MFG CO.

DATE 11/1/12

PO#

QUANTITY

28409

12,000

JOB # 10-32 x 15/16 ph flat AN507-1032R15

CADMIUM PLATED IN ACCORDANCE WITH AMS QQ-P-416C

Class III Type I (Clear X Yellow Black)

Hardness: NA HRC

☒ **NO BAKE**

☐ Before plating, bake at 375+/-25F for 4 hours. After plating, bake at 375+/-25F for 8 hours.

☐ Before plating, bake at 275+/-25F for 5 hours. After plating, bake at 275+/-25F for 23 hours.

☐ Before plating, bake at 375+/-25F for 4 hours. After plating, bake at 375+/-25F for 23 hours.

Thickness Test Results

Accept ☒ Reject ☐ Min.: Spec. .0002 Read .00036 Avg. .00039

Adhesion Test Results

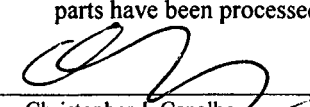
Accept ☒ Reject ☐

Inspected by: 

Certification

This lot has been processed, sampled, tested, and inspected in accordance with the contract and specification requirements listed above, and the plating and conversion coating complies with those contract and specification requirements. Process control data is on file and is available upon request. We certify that these parts have been processed in a mercury free environment.

NOV 01 2012

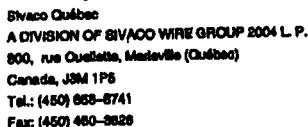
Signed: 

Christopher J. Capalbo

Title: Quality Manager

Date:

CRESCENT MFG
T.R. NO. 16868



DATE	SIVACO ORDER NO.
2012-05-25	M438898-1

TRU-SPEC METALS, INC
NORTH BRANFORD, CT

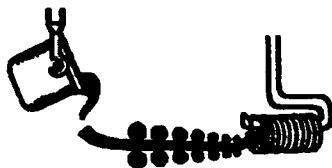
LOADING TALLY NO.		SHIPPING MEMO NO.		MILL TESTS NO.	
523484-00		476673		222290	
PURCHASE ORDER NO.		QUANTITY ORDERED		PRODUCT	
P13259		8,000 LBS		176 1018 CHQ AKFG SAFS PHOS LUBE 1018176F8P	
				SPEC.	
				ASTM F2282, SAE AIR 4127	

HEAT CHEMICAL ANALYSIS																								
HEAT NO.	%C	%Mn	%P	%S	%Si	%Al	%Cu	%Ni	%Cr	%Mo	%Bn	%Pb	%V	%Nb	%Ti	%Zn	%B	%As	%Co	%N2	%OR	%Ca	%Zr	
W28978	.17	.70	.007	.001	.08	.080	.03	.07	.05	.003	.001		.0040				.0001			.0058				

[illegible]

APPROVED BY: 3119

CRESCENT MFG
T.R. NO. 16868



MILL TEST CERTIFICATE

IVACO ROLLING MILLS LP

A HEICO COMPANY

P.O. BOX 322, L'ORIGINAL, ONTARIO, CANADA K0B 1K0

TEL: (613) 675-4671 FAX: (613) 675-6888

90001 0109 **SIVACO QUEBEC**
800 OUELLETTE STREET

MARIEVILLE (QC) J3M 1P5

This report contains analysis data that were produced under subcontract by laboratory Rio Tinto - Fer et Titane, AZLA - certificate number 0428-01.

NVLAP only covers the chemistry presented within this certificate. All other data is not covered by the NVLAP accreditation.



NVLAP

Lab Code 200143-0

ATTENTION : Chris Bonilla

VIA : EMAIL

Date Rolled 27-Apr-2012

Date Chemical Analysis Performed

17-Apr-2012

P.O. Number					Order Number					Heat Number					Customer Spec.					Spec Rev. No.					Customer Part No.					Billet Order					Grade					Diameter																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
120029					40101655					W28978					SQ418					52 20/12/00					42XX					329908					1018AK CHQ					6.50 mm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al	N	B	V																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

This is to certify that heat number W28978 is in conformance with the required specifications.

Heat analysis obtained by test methods ASTM E415 and ASTM E1019.

*Minimum and maximum refer to the required customer specification.

This is to certify that the material is in conformance with the required specifications.

Radioactive emissions are at background levels.

The wire rod was produced from Continuous Cast billets.

The product has not come in contact with mercury or any of its compounds during processing at L.R.M.

The rod meets SAE AIR 4127

CRESCENT MFG
T.R. NO. 16818

APPROVED BY: 

Supervisor, Chemistry Laboratory and Billet Inspection

ISSUED BY QUALITY ASSURANCE: 

Date: 30 May 2012

Specification Clerk

This Certificate shall not be reproduced except in full, without the written approval of Ivaco Rolling Mills LP, a Heico Company. This certificate is not to be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

Tru-Spec Metals, Inc.


21 Commerce Drive - North Branford, CT 06471 - 888-484-5151 ~ Fax 888-484-5154

6/8/2012

We certify that the following material was supplied by Tru-Spec Metals, Inc. and shipped to
Crescent Manufacturing Company:

<u>Dia.</u>	<u>Grade</u>	<u>Temper</u>	<u>Quantity</u>	<u>Heat #</u>	<u>PO#</u>	<u>Producer</u>
.176"	C1018	SAFS	3,305#	W28978	K12-185	Sivaco

Sincerely,



Linda MacLean
Tru-Spec Metals, Inc.

CRESCENT MFG
T.R. NO. 16868

TRU-SPEC METALS, INC.

21 Commerce Drive
North Banford, CT 06471
PH: 800-345-9473
FAX: 888-360-8404

Packing List

Order #: S35704
Ship Date: 06/07/12
Page: 1

Bill to: CRESCENT MANUFACTURING
P O BOX 1350
BURLINGTON, CT 06013
USA

Ship to: CRESCENT MANUFACTURING
700 GEORGE WASHINGTON TPK
BURLINGTON, CT 06013
USA

Customer #	Customer Purchase Order #	Ship Terms	Branch	Salesperson
381	K12-165	MID-CITIES	2	
Item Number / Description			Heat/Lot	Net Wt
			TOTAL LB OF THIS PART	3305
1018	.176 SAFS AKFG PHLU CHQ		W28978	1655
1018	.176 SAFS AKFG PHLU CHQ		W28978	1650
<div>OK SW 6-7-12</div>				
Special Instructions:				
Total LBS:				3305

ISO 9001:2000 CERTIFIED
FED TAX I.D. #38-3307958

Office Copy

CRESCENT MFG
T.R. NO. 16868